

CLAIMS:

1. Matrix display device having row electrodes (4) and column electrodes (5), an intersection of a row and a column electrode defining a pixel cell (1) having a pixel cell capacitance (8), and drive circuits (2, 3) for driving the row electrodes (4) and the column electrodes (5) including means for discharging at least partially the pixel cell capacitance (8) through an inductor (7) into a buffer capacitor (6), thereby storing energy from the pixel cell capacitance (8) into the buffer capacitor (6), characterized in that the drive circuits (2, 3) include means for discharging at least partially the buffer capacitor (6) through a means for controlling an amount of electrical charge (13) into the pixel cell capacitance (8), thereby recovering at least partially the stored energy.

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2. Matrix display device according to claim 1, characterized in that the means for controlling an amount of electrical charge (13) flowing into the pixel cell capacitance (8) is a current source.

15 3. Matrix display device according to claim 2, the display device further having a power supply (16) adapted to deliver power to the pixel cell (1) through the current source (13).

4. Matrix display device according to claim 3, characterized in that the buffer capacitor (6) has one terminal connected to the inductor (7) and another terminal connected either to ground or to substantially half the voltage of the power supply (16).

20 5. Matrix display device according to claim 1, characterized in that the buffer capacitor (6) has a capacitance which is comprised between 10 and 100 times the sum of the pixel cell capacitances of all pixel cells of the display device.

6. Matrix display device according to claim 1, characterized in that the display device is of the organic luminescent type.

7. Method of driving a matrix display having row electrodes (4) and column electrodes (5), an intersection of a row and a column electrode defining a pixel cell (1) having a pixel cell capacitance (8), the method including a first step of discharging at least partially the pixel cell capacitance (8) through an inductor (7) into a buffer capacitor (6),
- 5 characterized in that the method includes a further step of discharging at least partially the buffer capacitor (6) through a means for controlling an amount of electrical charge (13) flowing into the pixel cell capacitance (8).
8. Method of driving a matrix display device according to claim 7, characterized
- 10 in that the means for controlling an amount of electrical charge (13) flowing into the pixel cell capacitance (8) is a current source.
9. Method of driving a matrix display device according to claim 8, the display device further having a power supply (16) adapted to deliver power to the pixel cell (1)
- 15 through the current source (13).